

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1-50. (Cancelled)

51. (Currently amended) A genetic construct comprising the isolated nucleic acid according to ~~any one of claims 48 or 58-59~~claim 59.

52. (Original) A vector comprising the genetic construct according to claim 51.

53. (Original) A cell comprising the vector according to claim 52.

54. (Currently amended) A transformed plant comprising the nucleic acid according to ~~any one of claims 48 or 58-59~~claim 59.

55. (Currently amended) A method of producing a plant with increased GLA comprising transforming a plant cell with a nucleic acid according to ~~any one of claims 48 or 58-59~~claim 59 and regenerating said plant from said plant cell.

56. (Previously Presented) A transformed plant comprising the genetic construct according to claim 51.

57. (Previously Presented) A method of producing a plant with increased GLA comprising transforming a plant cell with the genetic construct according to claim 51 and regenerating said plant from said plant cell.

58. (Cancelled)

59. (Previously Presented) An isolated nucleic acid molecule coding for a plant delta-6 desaturase, whereby said nucleic acid molecule hybridizes under stringency conditions to the complement of a polynucleotide molecule encoding a plant delta-6 desaturase which comprises

SEQ ID NO: 6,

SEQ ID NO: 12, and

SEQ ID NO: 20,

and wherein said stringency conditions comprise hybridization to filter-bound DNA in 6X SSC, 1X Denharts solution, 0.05 % sodium pyrophosphate, 100µg/ml denaturated salmon sperm DNA at 60°C, and washing in 4X, 2X, and 1X SET at 60°C.

60. (Cancelled)